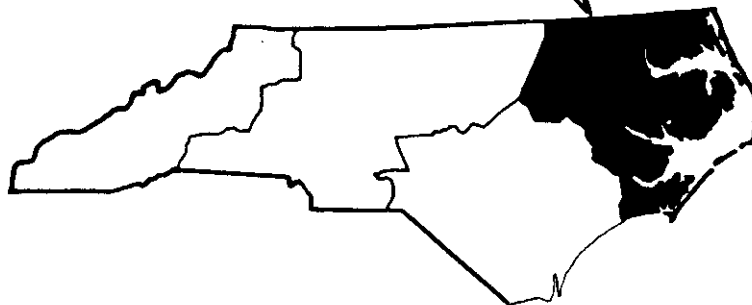


*Forest Statistics  
for the  
Northern Coastal Plain  
of  
North Carolina  
1974*




## FOREWORD

This report highlights the principal findings of the fourth inventory of the timber resource in the Northern Coastal Plain of North Carolina. The inventory was started in July 1973 and completed in May 1974. Three previous inventories, completed in 1937, 1955, and 1963, provide statistics for measuring changes and trends over the past 37 years. In this report, the primary emphasis is on the changes and trends since 1963.

Forest Resources Research, authorized by the McSweeney-McNary Forest Research Act of 1928, is a continuing, nationwide undertaking by the regional experiment stations of the Forest Service, USDA. In Florida, Georgia, North Carolina, South Carolina, and Virginia, Forest Resources Research is administered through the Southeastern Forest Experiment Station with headquarters at Asheville, North Carolina. The objective of the statewide timber inventories is to periodically measure and evaluate the timber resource. These inventories provide information on the extent and condition of the forest lands, volume of timber, and rates of timber growth and removals. These data and evaluations help provide a basis for the formulation of forest policies and programs and the orderly development and use of the resource.

The 23-county area covered by this report is one of four survey units in North Carolina. A comparable report, "Forest Statistics for the Southern Coastal Plain of North Carolina, 1973," USDA Forest Service Resource Bulletin SE-26, was issued in January 1974. Similar reports for the other two units will be issued as the inventory progresses. When completed, this inventory will provide updated statistics on the timber resource for all of North Carolina.

The Southeastern Station gratefully acknowledges the cooperation and assistance provided by the North Carolina Forest Service of the State Department of Natural and Economic Resources and by the Weyerhaeuser Company in the collection of the field data. Appreciation is also expressed for the excellent cooperation of other public agencies and private landowners in providing information and access to the sample locations.

  
JOE P. McCLURE  
Project Leader

## HIGHLIGHTS

Since 1963 in the Northern Coastal Plain of North Carolina--

- area of commercial forest land has decreased by 137,500 acres, or more than 3 percent. Some 173,300 acres of commercial forest were diverted to other land uses, while only 35,800 acres of new forest were added. Well over half of the diversion was to agricultural use, primarily new cropland established in the counties south of Albemarle Sound. Altogether, 4.1 million acres, or 61 percent of the total land area, were classified as commercial forest.
- both the areas of commercial forest land owned by farmers and forest industries have declined by 15 percent or more. The decline in farmer-owned woodland was widespread, whereas most of the industry loss is attributed to a single land transaction involving a major wood-using company. Area of commercial forest land owned by other private owners increased from slightly over 1.0 to 1.3 million acres, or by 28 percent. The acreage of publicly owned forest land, which accounts for less than 5 percent of the total, has changed little.
- more than 43 percent of the land now classified as commercial forest has been treated or significantly disturbed. More than 800,000 of these acres were harvested, and some 200,000 harvested acres were subsequently artificially regenerated. Altogether, only about 260,000 acres were artificially regenerated over the 11-year period, and more than 90 percent of this tree planting was on forest-industry lands. In addition to the acres harvested or artificially regenerated, almost 700,000 acres experienced either thinning, stand improvement, drainage, or site preparation. Finally, about 225,000 acres untreated by man were significantly disturbed by insects, diseases, wildfire, or other damaging agents.
- average basal area of all live trees 5.0 inches d.b.h. and larger has increased from 67 to 73 square feet per acre of commercial forest land. This high average stand density is attributed in part to the fact that bottomland hardwood stands, which are often densely stocked, occupy almost 28 percent of the commercial forest. Nevertheless, stocking has increased, and only 20 percent of the commercial forest is less than 60 percent stocked with growing-stock trees. Area occupied by sawtimber stands has decreased by a million acres; therefore, most of the stocking increase has been in poletimber and sapling and seedling stands.
- volume of softwood growing stock has decreased by almost 0.8 billion cubic feet, or 3 percent, because of a marked increase in timber removals in recent years. Between 1955 and 1963, the softwood inventory had increased by almost 11 percent. This turnabout is highly significant in that it has occurred extensively across most

counties, several species, and most diameter classes. Volume of loblolly pine, the area's most important timber species, was down almost 9 percent. Percentage volume reductions in cypress and shortleaf pine were even greater. Volume of all other softwood species was up, with most of the gain in pond pine. By diameter class, practically all the gain was in the 6- and 8-inch classes. Volume of softwood sawtimber has declined from 11.3 to 10.7 billion board feet, or by more than 5 percent.

--volume of hardwood growing stock has increased from 2.9 to 3.1 billion cubic feet, or by 7 percent. This was about the same rate of increase that occurred between 1955 and 1963. Although the hardwood situation is somewhat better than that described for softwood, some of its trends are also negative. For example, volume of blackgum and tupelo was down by 11 percent, and volume in trees 15.0 inches d.b.h. and larger was down by 5 percent when all hardwood species were grouped. In fact, the volume of hardwood sawtimber, which had increased by 3 percent between 1955 and 1963, has barely held its own at 8.5 billion board feet. Distribution of the hardwood volume has shifted noticeably to smaller trees and to such species as oak and yellow-poplar.

#### In 1973--

--net growth of growing stock totaled 231 million cubic feet and averaged 56 cubic feet per acre of commercial forest land. Although annual growth increased a healthy 29 percent since the previous survey, it has not kept pace with the increase in softwood removals in recent years. Slightly over half of the growth was hardwood; yet, 60 percent of the volume removed was softwood. As a result, removals of softwood growing stock exceeded growth by 19 percent in 1973. By ownership class, 17 percent of the growth occurred on lands owned or leased by forest industries, 79 percent on other private lands, and the remaining 4 percent on public lands. Across all species and ownership classes, the net growth included 881 million board feet of sawtimber.

--removals of growing stock totaled 228 million cubic feet and included 938 million board feet of sawtimber. This means that annual removals have increased by more than 50 percent since the previous survey. By ownership class, 34 percent of the removals were from lands owned or leased by forest industries, 65 percent from other private lands, and only about 1 percent from public lands. Although the overcut of softwood was greatest on industry lands, it also occurred to a lesser extent on farm woodlands. Altogether, softwood removals exceeded net growth in 15 of the 23 counties.

--mortality of growing stock totaled 37 million cubic feet, which is less than two-thirds of the loss determined in the previous survey. Nevertheless, mortality in 1973 reduced the gross growth by almost 14 percent. By species group, 56 percent of the mortality was softwood. Total mortality included 92 million board feet of sawtimber.

## HOW THE FOREST SURVEY IS MADE

The method of survey is essentially a sampling procedure designed to provide reliable statistics primarily for States and Survey Units. Individual county statistics are presented so that any combination of counties may be added together until the total is large enough to meet the desired degree of reliability. The basic steps of the survey procedure were as follows:

1. Initial estimates of forest and nonforest areas were based on the classification of 23,588 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 2,502 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassifications.
2. Estimates of timber volume and forest classifications were based on measurements recorded at 1,493 ground sample locations systematically distributed within the commercial forest land. A 10-point cluster of plots, measured with a basal area factor of 37.5 square feet per acre, was systematically spaced on an acre at each of these sample locations. Trees less than 5 inches d.b.h. were tallied on a portion of the fixed-radius plots around the point centers.
3. Equations prepared from detailed measurements collected on standing trees at 22 sample locations in the Northern Coastal Plain of North Carolina, and similar measurements taken throughout the Southeast, were used to compute the volumes of individual tally trees. A mirror caliper and sectional aluminum poles were used to obtain the additional measurements on standing trees required to construct the volume equations.
4. Felled trees were measured at 32 active cutting operations to provide utilization factors for product and species groups and to supplement the standing tree-volume study.
5. Estimates of growth, removals, and mortality were determined from the remeasurement of 1,461 permanent sample plots which were established in the third survey.

6. Ownership information was collected from local contacts, correspondence, and public records. In those counties where the sample missed a particular ownership class, temporary sample plots were added and measured to describe the forest conditions within the ownership class.
7. All field data were sent to Asheville for editing and were punched into cards and stored on magnetic tape for machine computing, sorting, and tabulation. Final estimates were based on statistical summaries of the data.

#### RELIABILITY OF THE DATA

Statistical analysis of these data indicates the following sampling errors in terms of one standard error (two times out of three):

	<u>Percent</u>
Per million acres of commercial forest land - - - - -	1.17
Per billion cubic feet of growing stock - - - - -	5.40
Per billion cubic feet of net annual growth - - - - -	1.02
Per billion cubic feet of annual removals - - - - -	2.62

*SAMPLING ERRORS FOR COUNTY AND UNIT TOTALS,<sup>1</sup> IN TERMS OF  
ONE STANDARD ERROR*

COUNTY	COMMERCIAL FOREST AREA	CUBIC-FOOT VOLUME OF GROWING STOCK		
		INVENTORY	GROWTH	REMOVALS
- - - - - <i>SAMPLING ERROR</i> <sup>2</sup> - - - - -				
BEAUFORT	1.71	8.19	7.93	14.32
BERTIE	1.60	7.47	6.97	16.69
CAMDEN	3.79	13.26	13.18	41.03
CARTERET	1.96	11.50	10.89	29.84
CHOWAN	4.31	16.74	14.06	27.53
CRAVEN	1.28	9.25	9.81	20.31
CURRITUCK	3.64	13.50	13.35	66.82
DARE	5.15	10.77	11.78	58.76
EDGECOMBE	2.30	8.92	8.54	26.85
GATES	1.66	12.17	9.13	31.86
HALIFAX	1.51	7.71	6.68	21.20
HERTFORD	2.11	10.94	9.87	19.85
HYDE	5.87	9.90	9.54	30.95
MARTIN	1.84	9.29	10.25	23.73
NASH	1.87	8.26	9.07	20.29
NORTHAMPTON	1.71	9.40	8.42	18.00
PAMLICO	3.03	11.52	11.79	26.20
PASQUOTANK	6.12	16.48	14.57	40.92
PERQUIMANS	3.11	14.67	15.67	27.14
PITT	2.55	10.84	9.96	21.09
TYRRELL	1.73	10.22	11.00	52.81
WASHINGTON	4.36	13.70	14.99	24.31
WILSON	3.29	9.94	10.01	37.95
UNIT TOTAL	0.57	2.23	2.13	5.49

<sup>1</sup> SAMPLING ERROR OF BREAKDOWNS OF COUNTY AND UNIT TOTALS  
MAY BE COMPUTED WITH THE FOLLOWING FORMULA:

$$E = \frac{(SE) \sqrt{(\text{SPECIFIED VOLUME OR AREA})}}{\sqrt{(\text{VOLUME OR AREA TOTAL IN QUESTION})}}$$

WHERE:  $E$  = SAMPLING ERROR OF THE VOLUME OR AREA TOTAL IN  
QUESTION.

SE = SPECIFIED SAMPLING ERROR IN TABLE.

<sup>2</sup> BY RANDOM-SAMPLING FORMULA (IN PERCENT).

## DEFINITIONS OF TERMS

Acceptable trees.--Growing-stock trees of commercial species that meet specified standards of size and quality, but not qualifying as desirable trees.

Basal area.--The area in square feet of the cross section at breast height of a single tree or of all the trees in a stand, usually expressed as square feet of basal area per acre.

Commercial forest land.--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Commercial species.--Tree species presently or prospectively suitable for industrial wood products.

Cropland.--Land under cultivation within the past 24 months, including orchards and land in soil-improving crops, but excluding land cultivated in developing improved pasture. Also includes idle farmland.

Desirable trees.--Growing-stock trees of commercial species having no serious defects in quality limiting present or prospective use for timber products, of relatively high vigor, and containing no pathogens that may result in death or serious deterioration before rotation age.

Diameter class.--A classification of trees based on diameter outside bark, measured at breast height ( $4\frac{1}{2}$  feet above the ground). D.b.h. is the common abbreviation for "diameter at breast height." Two-inch diameter classes are commonly used in Forest Survey, with the even inch the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h., inclusive.

Farm.--Either a place operated as a unit of 10 or more acres from which the sale of agricultural products totaled \$50 or more annually, or a place operated as a unit of less than 10 acres from which the sale of agricultural products for the year amounted to at least \$250.

Farm operator.--A person who operates a farm, either doing the work himself or directly supervising the work.

Farmer-owned lands.--Lands owned by farm operators.

Forest industry lands.--Lands owned by companies or individuals operating wood-using plants.

Forest land.--Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use.

Forest type.--A classification of forest land based upon the species forming a plurality of live-tree stocking.

Longleaf-slash pine.--Forests in which longleaf or slash pine, singly or in combination, comprises a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Loblolly-shortleaf pine.--Forests in which loblolly pine, shortleaf pine, or other southern yellow pines, except longleaf or slash pine, singly or in combination, comprise a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Oak-pine.--Forests in which hardwoods (usually upland oaks) comprise a plurality of the stocking but in which pines comprise 25 to 50 percent of the stocking. (Common associates include gum, hickory, and yellow-poplar.)

Oak-hickory.--Forests in which upland oaks or hickory, singly or in combination, comprise a plurality of the stocking, except where pines comprise 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include yellow-poplar, elm, maple, and black walnut.)

Oak-gum-cypress.--Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, comprises a plurality of the stocking, except where pines comprise 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include cottonwood, willow, ash, elm, hackberry, and maple.)

Elm-ash-cottonwood.--Forests in which elm, ash, or cottonwood, singly or in combination, comprises a plurality of the stocking. (Common associates include willow, sycamore, beech, and maple.)

Gross growth.--Annual increase in net volume of trees in the absence of cutting and mortality.

Growing-stock trees.--Live trees of commercial species qualifying as desirable or acceptable trees.

Growing-stock volume.--Net volume in cubic feet of growing-stock trees 5.0 inches d.b.h. and over from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs. (Net volume in primary forks is included.)

Hardwoods.--Dicotyledonous trees, usually broad-leaved and deciduous.

Soft hardwoods.--Soft-textured hardwoods such as boxelder, red and silver maple, buckeye, hackberry, loblolly-bay, silverbell (in mountains), butternut, sweetgum, yellow-poplar, cucumbertree, magnolia, sweetbay, water tupelo, blackgum, sycamore, cottonwood, black cherry, willow, basswood, and elm.

Hard hardwoods.--Hard-textured hardwoods such as Florida and sugar maple, birch, hickory, dogwood, persimmon (forest grown), beech, ash, honeylocust, holly, black walnut, mulberry, all commercial oaks, and black locust.

Idle farmland.--Includes former croplands, orchards, improved pastures and farm sites not tended within the past 2 years, and presently less than 16.7 percent stocked with trees.

Improved pasture.--Land currently improved for grazing by cultivation, seeding, irrigation, or clearing of trees or brush.

Industrial wood.--All roundwood products except fuelwood.

Land area.--The area of dry land and land temporarily or partly covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than 1/8 of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres in area.

Logging residues.--The unused portions of trees cut or killed by logging.

Miscellaneous Federal lands.--Federal lands other than National Forests, lands administered by the Bureau of Land Management, and Indian lands.

Miscellaneous private lands - corporate.--Lands owned by private corporations other than forest industry.

Miscellaneous private lands - individual.--Privately owned lands other than forest-industry, farmer-owned, or corporate lands.

Mortality.--Number or sound-wood volume of live trees dying from natural causes during a specified period.

National Forest land.--Federal lands which have been legally designated as National Forests or purchase units, and other lands under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III lands.

Net annual growth.--The increase in volume for a specific year.

Net volume.--Gross volume less deductions for rot, sweep, or other defect affecting use for timber products.

Noncommercial forest land.--(a) Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions, and (b) productive-reserved forest land.

Noncommercial species.--Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Nonforest land.--Land that has never supported forests and lands formerly forested where timber management is precluded by development for other uses.

Nonstocked land.--Commercial forest land less than 16.7 percent stocked with growing-stock trees.

Other Federal lands.--Federal lands other than National Forests, including lands administered by the Bureau of Land Management, Bureau of Indian Affairs, and other Federal agencies.

Other public lands.--Publicly owned lands other than National Forests.

Overstocked areas.--Areas where growth of trees is significantly reduced by excessive numbers of trees.

Poletimber trees.--Growing-stock trees of commercial species at least 5.0 inches in d.b.h. but smaller than sawtimber size.

Productive-reserved forest land.--Forest land sufficiently productive to qualify as commercial forest land, but withdrawn from timber utilization through statute or administrative designation.

Rangeland.--Land on which the natural plant cover is composed principally of native grasses, forbs, or shrubs valuable for forage.

Rotten trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of rot or missing sections, and with less than one-third of the gross tree volume in sound material.

Rough trees.--(a) Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of roughness, poor form, splits, and cracks, and with less than one-third of the gross tree volume in sound material; and (b) all live trees of noncommercial species.

Salvable dead trees.--Standing or down dead trees that are considered merchantable by Forest Survey standards.

Saplings.--Live trees 1.0 to 5.0 inches in diameter at breast height.

Saw log.--A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark for softwoods of 6 inches (8 inches for hardwoods).

Saw-log portion.--That part of the bole of sawtimber trees between the stump and the saw-log top.

Saw-log top.--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum saw-log top is 7.0 inches d.o.b. for softwoods and 9.0 inches d.o.b. for hardwoods.

Sawtimber trees.--Live trees of commercial species containing at least a 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, and with at least one-third of the gross board-foot volume between the 1-foot stump and minimum saw-log top being sound. Softwoods must be at least 9.0 inches and hardwoods at least 11.0 inches in diameter at breast height.

Sawtimber volume.--Net volume of the saw-log portion of live sawtimber in board-foot International 1/4-inch rule.

Seedlings.--Live trees less than 1.0 inch in diameter at breast height that are expected to survive and develop.

Site class.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood based on fully stocked natural stands.

Class 1.--Sites capable of producing 165 or more cubic feet per acre annually.

Class 2.--Sites capable of producing 120 to 165 cubic feet per acre annually.

Class 3.--Sites capable of producing 85 to 120 cubic feet per acre annually.

Class 4.--Sites capable of producing 50 to 85 cubic feet per acre annually.

Class 5.--Sites incapable of producing 50 cubic feet per acre annually, but excluding unproductive sites.

Softwoods.--Coniferous trees, usually evergreen, having needles or scale-like leaves.

Pines.--Yellow pine species which include loblolly, longleaf, slash, shortleaf, pitch, Virginia, Table-Mountain, sand, and spruce pine.

Other softwoods.--White pine, hemlock, cypress, eastern redcedar, white-cedar, spruce, and fir.

Stand-size class.--A classification of forest land based on the size class of growing-stock trees on the area.

Sawtimber stands.--Stands at least 16.7 percent stocked with growing-stock trees, with half or more of total stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands.--Stands at least 16.7 percent stocked with growing-stock trees of which half or more of this stocking is in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Sapling-seedling stands.--Stands at least 16.7 percent stocked with growing-stock trees of which more than half of the stocking is saplings and seedlings.

State, county, and municipal lands.--Lands owned by States, counties, and local public agencies or municipalities, or lands leased to these governmental units for 50 years or more.

Stocking.--The degree of occupancy of land by trees, measured by basal area or the number of trees in a stand and spacing in the stand, compared to a minimum standard, depending on tree size, to fully utilize the growth potential of the land. (See page 12.)

Timber removals.--The net volume of growing-stock trees removed from the inventory by harvesting; cultural operations, such as stand improvement; land clearing, or changes in land use.

Unproductive forest land.--Forest land incapable of producing 20 cubic feet per acre of industrial wood under natural conditions, because of adverse site conditions.

Upper-stem portion.--That part of the main stem or fork of sawtimber trees above the saw-log top to a minimum top diameter of 4.0 inches outside bark or to the point where the main stem or fork breaks into limbs.

Urban and other areas.--Areas within the legal boundaries of cities and towns; suburban areas developed for residential, industrial, or recreational purposes; school yards; cemeteries; roads; railroads; airports; beaches; powerlines and other rights-of-way; or other nonforest land not included in any other specified land use class.

*STOCKING STANDARD*

D.B.H. CLASS	MINIMUM NUMBER OF TREES PER ACRE FOR FULL STOCKING	MINIMUM BASAL AREA PER ACRE FOR FULL STOCKING	PERCENT STOCKING ASSIGNED EACH TALLY TREE <sup>1</sup>
SEEDLINGS	600	--	5.0
2	560	--	5.4
4	460	--	6.5
6	340	67	5.8
8	240	84	4.8
10	155	85	4.3
12	115	90	4.0
14	90	96	3.8
16	72	101	3.7
18	60	106	3.5
20	51	111	3.5

<sup>1</sup> TREES LESS THAN 5.0 INCHES D.B.H. WERE TALLIED ON A 10-POINT CLUSTER OF CIRCULAR, 1/300-ACRE PLOTS AT EACH SAMPLE LOCATION. TREES 5.0 INCHES D.B.H. AND LARGER WERE TALLIED ON A 10-POINT CLUSTER OF VARIABLE PLOTS USING A BASAL AREA FACTOR OF 37.5 AT EACH SAMPLE LOCATION.

OVERSTOCKED--OVER 130 PERCENT  
FULLY STOCKED--100-130 PERCENT  
MEDIUM STOCKED--60-99 PERCENT  
POORLY STOCKED--16.7-59 PERCENT  
NONSTOCKED--LESS THAN 16.7 PERCENT

*CUBIC FEET OF WOOD PER AVERAGE CORD  
(EXCLUDING BARK)*

D.B.H. CLASS	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD
6	60.5	61.0	68.2	60.0
8	68.5	68.1	76.0	68.4
10	73.5	73.1	81.4	73.4
12	76.8	76.7	85.2	76.4
14	79.2	79.4	88.2	78.4
16	80.9	81.6	90.4	79.8
18	82.3	83.3	92.3	80.8
20	83.3	84.8	93.8	81.5
22	84.0	86.0	95.1	82.1
24+	84.7	87.7	97.9	83.2
AVERAGE	74.9	75.4	86.0	74.0

# COUNTY TABLES

THE COUNTY TABLES ARE INTENDED FOR USE IN COMPILING FOREST RESOURCE ESTIMATES FOR GROUPS OF COUNTIES. BECAUSE THE SAMPLING PROCEDURE USED BY THE FOREST SURVEY WAS INTENDED PRIMARILY TO FURNISH INVENTORY DATA FOR THE SURVEY UNIT AS A WHOLE, INDIVIDUAL COUNTY ESTIMATES HAVE LIMITED AND VARIABLE ACCURACY. AS COUNTY TOTALS ARE BROKEN DOWN BY VARIOUS SUBDIVISIONS, THE POSSIBILITY OF ERROR INCREASES AND IS GREATEST FOR THE SMALLEST ITEMS. THE ORDER OF THIS INCREASE CAN BE COMPUTED WITH THE FORMULA ON PAGE 5.

TABLE 1. --AREA, BY LAND CLASS AND COUNTY, 1974

COUNTY	ALL LAND <sup>1</sup>	FOREST LAND			NONFOREST LAND <sup>2</sup>	
		TOTAL	COMMERCIAL FOREST	UNPRODUCTIVE FOREST		PRODUCTIVE-RESERVED
				ACRES		
BEAUFORT	528,640	337,745	337,745	--	--	190,895
BERTIE	446,720	319,754	319,754	--	--	126,966
CAMDEN	152,960	97,680	97,680	--	--	55,280
CARTERET	343,040	236,936	231,823	4,858	255	106,104
CHOWAN	110,720	58,099	58,099	--	--	52,621
CRAVEN	447,360	333,361	333,361	--	--	113,999
CURRITUCK	157,440	79,181	77,876	1,305	--	78,259
DARE	250,240	175,868	156,426	18,635	807	74,372
EDGECOMBE	326,400	153,397	153,397	--	--	173,003
GATES	215,680	156,206	156,206	--	--	59,474
HALIFAX	460,814	277,185	277,185	--	--	183,629
HERTFORD	225,920	145,722	145,722	--	--	80,198
HYDE	392,320	245,536	244,864	672	--	146,784
MARTIN	291,200	188,452	188,452	--	--	102,748
NASH	346,710	182,616	182,616	--	--	164,094
NORTHAMPTON	345,732	210,029	210,029	--	--	135,703
PAMLICO	220,800	148,471	147,115	1,356	--	72,329
PASQUOTANK	145,920	72,178	72,178	--	--	73,742
PERQUIMANS	157,440	86,672	86,672	--	--	70,768
PITT	419,200	198,825	198,825	--	--	220,375
TYRRELL	249,600	216,555	213,411	2,605	539	33,045
WASHINGTON	217,242	121,358	116,462	4,741	155	95,884
WILSON	240,000	104,481	104,481	--	--	135,519
TOTAL	6,692,098	4,146,307	4,110,379	34,172	1,756	2,545,791

<sup>1</sup> FROM U. S. BUREAU OF THE CENSUS, LAND AND WATER AREA OF THE UNITED STATES, 1970.

<sup>2</sup> INCLUDES 57,409 ACRES OF WATER ACCORDING TO SURVEY STANDARDS OF AREA CLASSIFICATION BUT DEFINED BY BUREAU OF THE CENSUS AS LAND.

TABLE 2. --AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND COUNTY, 1974

COUNTY	ALL OWNERSHIPS	OWNERSHIP CLASS						FARMER			MISCELLANEOUS PRIVATE	
		NATIONAL FOREST	MISCELLANEOUS FEDERAL	STATE	COUNTY AND MUNICIPAL	FOREST INDUSTRY <sup>1</sup>	ACRES				CORPORATE	INDIVIDUAL
BEAUFORT	337,745	--	--	3,157	60	155,760		119,039		13,734		45,995
BERTIE	319,754	--	--	1,173	125	86,947		151,966		8,289		72,254
CAMDEN	97,680	--	--	--	--	13,650		37,902		24,365		21,659
CARTERET	231,823	54,440	104	26	--	61,391		14,305		51,505		42,916
CHOWAN	58,099	--	--	--	--	10,911		29,801		2,483		14,904
CRAVEN	333,361	54,239	6,280	--	80	99,395		104,192		16,429		52,746
CURRITUCK	77,876	--	2,312	7,453	44	11,130		25,306		--		31,631
DARE	156,426	--	--	--	--	--		--		--		156,426
EDGECOMBE	153,397	--	--	621	22	3,647		122,948		--		26,159
GATES	156,206	--	--	--	--	63,742		62,546		--		29,918
HALIFAX	277,185	--	27	1,877	243	40,946		170,647		2,709		60,736
HERTFORD	145,722	--	--	80	92	31,325		77,090		2,753		34,382
HYDE	244,864	--	14,256	12,850	130	39,635		46,468		82,613		49,042
MARTIN	188,452	--	--	--	--	58,789		109,383		2,878		17,272
NASH	182,616	--	--	40	30	5,304		120,163		9,014		48,105
NORTHAMPTON	210,029	--	--	1,206	13	19,203		125,727		--		63,880
PAMLICO	147,115	--	--	1,000	--	35,956		32,556		19,664		57,939
PASQUOTANK	72,178	--	15	207	347	21,226		22,716		2,524		15,143
PERQUIMANS	86,672	--	--	--	70	21,712		48,667		2,704		13,519
PITT	198,825	--	--	60	362	26,156		140,038		9,804		22,405
TYRRELL	213,411	--	--	--	--	39,428		17,398		5,800		150,785
WASHINGTON	115,462	--	8,264	1,096	104	41,685		33,961		7,838		23,514
WILSON	104,481	--	--	--	754	1,966		85,693		--		16,106
TOTAL	4,110,379	108,679	38,498	29,846	2,476	899,904		1,698,512		265,106		1,067,358

<sup>1</sup> NOT INCLUDING 17,691 ACRES OF FARMER-OWNED AND MISCELLANEOUS PRIVATE LANDS LEASED TO FOREST INDUSTRY.

TABLE 3. --AREA OF COMMERCIAL FOREST LAND, BY FOREST-TYPE GROUP AND COUNTY, 1974

COUNTY	ALL TYPE GROUPS	FOREST-TYPE GROUP									MAPLE-BEECH-BIRCH
		WHITE PINE-HEMLOCK	SPRUCE-FIR	LONGLEAF-SLASH	LOBLOLLY-SHORTLEAF	OAK-PINE	OAK-HICKORY	OAK-GUM-CYPRESS	ELM-ASH-COTTONWOOD		
		ACRES									
BEAUFORT	337,745	--	--	5,903	156,113	64,758	40,769	70,202	--	--	
BERTIE	319,754	--	--	--	100,094	54,223	73,179	77,104	15,154	--	
CAMDEN	97,680	--	--	--	23,070	2,811	13,537	58,262	--	--	
CARTERET	231,823	--	--	13,375	142,643	43,006	2,861	29,938	--	--	
CHOWAN	58,099	--	--	--	15,391	9,934	25,324	7,450	--	--	
CRAVEN	333,361	--	--	8,636	157,637	47,928	42,531	56,594	20,035	--	
CURRITUCK	77,876	--	--	--	32,395	7,339	6,327	31,815	--	--	
DARE	156,426	--	--	--	52,145	41,157	--	63,114	--	--	
EDGEcombe	153,397	--	--	--	50,733	20,928	34,650	44,471	2,615	--	
GATES	156,206	--	--	--	57,790	13,256	19,036	66,124	--	--	
HALIFAX	277,185	--	--	--	77,135	43,983	96,042	43,558	16,467	--	
HELFORD	145,722	--	--	--	41,266	32,699	44,053	27,704	--	--	
HYDE	244,864	--	--	2,581	172,204	7,745	7,743	54,591	--	--	
MARTIN	188,452	--	--	--	78,767	25,584	28,785	55,316	--	--	
NASH	182,616	--	--	--	62,205	33,044	72,346	12,017	3,004	--	
NORTHAMPTON	210,029	--	--	--	43,550	37,844	73,536	37,139	17,960	--	
PAULICO	147,115	--	--	5,426	66,739	19,640	16,278	36,119	2,713	--	
PASQUOTANK	72,178	--	--	--	22,586	6,246	15,713	27,623	--	--	
PERQUIMANS	86,622	--	--	--	25,579	13,228	25,817	21,048	--	--	
PITT	198,825	--	--	2,012	64,321	27,217	34,031	62,843	8,401	--	
TYRRELL	213,411	--	--	--	87,276	30,589	8,698	86,848	--	--	
WASHINGTON	116,462	--	--	--	38,000	5,225	10,616	62,621	--	--	
WILSON	104,481	--	--	--	26,779	18,034	43,600	13,390	2,678	--	
TOTAL	4,110,379	--	--	37,933	1,594,418	606,628	736,472	1,045,901	89,027	--	

TABLE 4. --AREA OF COMMERCIAL FOREST LAND, BY STAND-SIZE CLASS  
AND COUNTY, 1974

COUNTY	ALL STANDS	STAND-SIZE CLASS			NONSTOCKED AREAS
		SAWTIMBER	POLETIMBER	SAPLING- SEEDLING	
- - - - - ACRES - - - - -					
BEAUFORT	337,745	105,297	105,806	126,642	--
BERTIE	319,754	134,587	85,569	87,683	11,915
CAMDEN	97,680	63,678	17,758	16,244	--
CARTERET	231,823	62,738	71,949	91,413	5,723
CHOWAN	58,099	27,564	15,390	9,933	5,212
CRAVEN	333,361	115,062	59,527	132,433	26,339
CURRITUCK	77,876	40,049	30,019	7,808	--
DARE	156,426	38,418	79,585	32,933	5,490
EDGECOMBE	153,397	86,967	31,392	32,422	2,616
GATES	156,206	69,522	45,213	38,921	2,550
HALIFAX	277,185	115,997	78,762	82,426	--
HERTFORD	145,722	73,616	29,255	42,851	--
HYDE	244,864	73,924	75,236	79,716	15,988
MARTIN	188,452	101,372	36,260	47,941	2,879
NASH	182,616	90,371	54,074	38,171	--
NORTHAMPTON	210,029	99,551	60,717	49,761	--
PAMLICO	147,115	59,754	48,755	38,606	--
PASQUOTANK	72,178	40,225	19,461	12,492	--
PERQUIMANS	86,672	32,226	32,153	22,293	--
PITT	198,825	83,657	46,035	67,121	2,012
TYRRELL	213,411	79,014	61,619	64,514	8,264
WASHINGTON	116,462	56,360	25,046	13,396	21,660
WILSON	104,481	61,593	24,856	18,032	--
TOTAL	4,110,379	1,711,542	1,134,437	1,153,752	110,648

TABLE 5. --AREA OF COMMERCIAL FOREST LAND, BY SITE CLASS AND COUNTY, 1974

COUNTY	ALL CLASSES	SITE CLASS				
		1	2	3	4	5
- - - - - ACRES - - - - -						
BEAUFORT	337,745	--	--	67,460	232,545	37,740
BERTIE	319,754	--	--	96,058	220,932	2,764
CAMDEN	97,680	--	5,415	14,240	69,799	8,226
CARTERET	231,823	--	2,861	17,212	56,061	155,689
CHOWAN	58,099	--	7,452	33,019	15,145	2,483
CRAVEN	333,361	--	14,791	94,550	154,693	69,327
CURRITUCK	77,876	--	3,163	14,515	34,035	26,163
DARE	156,426	--	--	8,232	65,861	82,333
EDGECOMBE	153,397	--	5,231	58,194	89,972	--
GATES	156,206	--	8,159	29,407	113,371	5,269
HALIFAX	277,185	--	8,125	97,949	154,858	16,253
HERTFORD	145,722	--	--	42,296	103,426	--
HYDE	244,864	--	--	15,739	108,493	120,632
MARTIN	188,452	--	--	54,500	133,952	--
NASH	182,616	--	3,004	51,139	128,473	--
NORTHAMPTON	210,029	--	--	60,719	134,343	14,967
PAMLICO	147,115	--	2,713	31,624	72,944	39,834
PASQUOTANK	72,178	--	3,123	20,761	48,294	--
PERQUIMANS	86,672	--	2,412	34,345	44,798	5,117
PITT	198,825	--	2,801	92,139	103,885	--
TYRRELL	213,411	--	2,900	16,527	125,264	68,720
WASHINGTON	116,462	--	--	24,177	76,183	16,102
WILSON	104,481	--	2,678	29,458	72,345	--
TOTAL	4,110,379	--	74,828	1,004,260	2,359,672	671,619

TABLE 6.--AREA OF COMMERCIAL FOREST LAND, BY STOCKING CLASSES OF GROWING-STOCK TREES, BY COUNTY, 1974

COUNTY	ALL CLASSES	STOCKING PERCENTAGE <sup>1</sup>				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
- - - - - ACRES - - - - -						
BEAUFORT	337,745	2,705	146,146	148,448	40,446	--
BERTIE	319,754	10,577	102,292	125,504	69,466	11,915
CAMDEN	97,680	8,122	28,484	44,727	16,347	--
CARTERET	231,823	7,652	51,029	114,587	52,832	5,723
CHOWAN	58,099	--	17,630	22,840	12,417	5,212
CRAVEN	333,361	8,526	113,047	115,364	70,085	26,339
CURRITUCK	77,876	6,326	23,624	25,151	22,775	--
DARE	156,426	5,488	49,396	65,863	30,189	5,490
EDGECOMBE	153,397	10,464	54,936	72,301	13,080	2,616
GATES	156,206	13,258	58,300	63,568	18,530	2,550
HALIFAX	277,185	11,051	120,474	127,044	18,616	--
HERTFORD	145,722	4,093	42,679	82,429	16,521	--
HYDE	244,864	5,162	86,585	92,245	44,884	15,988
MARTIN	188,452	5,243	86,013	64,267	30,050	2,879
NASH	182,616	--	68,212	92,315	22,089	--
NORTHAMPTON	210,029	7,206	69,646	89,350	43,827	--
PAMLICO	147,115	2,713	49,459	57,892	37,051	--
PASQUOTANK	72,178	7,572	17,509	38,327	8,770	--
PERQUIMANS	86,672	2,774	41,803	28,577	13,518	--
PITT	198,825	8,401	67,911	91,270	29,231	2,012
TYRRELL	213,411	11,600	66,978	72,782	53,787	8,264
WASHINGTON	116,462	8,170	13,395	46,612	26,625	21,660
WILSON	104,481	754	42,847	47,490	13,390	--
TOTAL	4,110,379	147,857	1,418,395	1,728,953	704,526	110,648

<sup>1</sup> SEE STOCKING STANDARDS ON PAGE 12.

TABLE 7. --VOLUME OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1974

COUNTY	SAWTIMBER					GROWING STOCK				
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
	THOUSAND BOARD FEET					THOUSAND CUBIC FEET				
BEAUFORT	1,114,402	582,694	48,585	317,356	165,767	364,452	163,837	11,027	131,627	57,961
BERTIE	1,701,159	750,276	54,271	569,755	326,857	503,674	179,273	12,781	195,491	116,129
CAMDEN	637,856	295,358	61,737	255,825	24,936	187,323	61,973	17,551	91,350	16,449
CARTERET	590,222	510,424	--	67,401	12,397	205,306	168,992	--	29,267	7,047
CHOWAN	361,496	210,185	1,621	94,584	55,106	95,202	41,986	325	33,957	18,934
CRAVEN	1,223,201	746,347	19,302	319,881	137,671	356,543	198,074	4,094	107,398	46,977
CURRITUCK	398,547	260,137	10,724	103,578	24,108	121,553	58,383	2,512	50,839	9,819
DARE	588,529	334,655	53,806	194,498	5,570	213,256	94,106	23,896	93,993	1,261
EDGEcombe	1,067,477	534,463	23,708	342,702	166,604	291,718	126,288	5,208	102,987	57,235
GATES	985,103	464,254	66,689	391,977	62,183	294,573	103,836	17,103	147,438	26,196
HALIFAX	1,499,129	655,119	13,581	518,656	311,773	451,825	166,403	3,475	172,450	109,497
HERTFORD	668,290	316,506	36,102	203,522	112,160	208,647	79,874	8,208	70,781	49,784
HYDE	703,481	471,299	39,535	148,353	44,294	254,380	164,574	10,530	68,744	10,532
MARTIN	1,046,955	507,224	42,326	385,630	111,575	289,963	117,798	8,947	124,895	38,323
NASH	1,112,842	569,907	9,877	276,057	257,001	310,937	136,354	2,765	85,392	86,426
NORTHAMPTON	984,503	324,568	16,750	364,232	278,953	305,269	85,395	3,689	121,238	94,947
PAMLICO	591,958	387,089	12,307	136,017	56,545	202,130	113,073	2,406	66,821	19,830
PASQUOTANK	435,450	175,529	71,761	153,131	35,029	133,546	41,095	18,956	63,239	10,256
PERQUIMANS	339,110	146,509	24,970	89,364	78,267	121,216	42,505	7,131	44,371	27,209
PITT	1,053,528	411,903	139,347	385,223	117,055	299,241	101,896	28,823	130,249	38,273
TYRRELL	890,962	499,193	89,404	246,153	56,212	295,497	140,124	24,281	115,316	15,776
WASHINGTON	485,923	237,776	28,420	183,732	35,995	157,223	53,488	7,019	81,919	14,797
WILSON	742,531	428,134	8,384	198,303	107,710	209,749	95,757	1,895	67,204	44,893
TOTAL	19,222,654	9,819,549	873,207	5,946,130	2,583,768	5,873,223	2,535,084	222,622	2,196,966	918,551

<sup>1</sup> FACTORS FOR CONVERTING TO CORDS ARE SHOWN ON PAGE 12.

TABLE 8. --NET ANNUAL GROWTH OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1973

COUNTY	SAWTIMBER					GROWING STOCK				
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
	THOUSAND BOARD FEET					THOUSAND CUBIC FEET				
BEAUFORT	53,182	27,766	1,341	16,493	7,582	16,035	8,563	249	5,054	2,169
BERTIE	77,046	38,680	1,773	22,748	13,845	19,491	7,447	319	7,773	3,952
CAMDEN	25,283	11,155	2,803	8,599	2,726	5,953	1,971	538	2,823	621
CARTERET	33,928	30,101	--	3,176	651	9,545	7,777	--	1,283	485
CHOWAN	14,584	7,258	42	4,558	2,726	3,582	1,431	7	1,351	793
CRAVEN	51,882	36,637	453	9,971	4,821	14,441	8,196	83	4,552	1,610
CURRITUCK	17,428	10,601	309	5,390	1,128	4,385	1,769	107	2,149	360
DARE	27,088	14,395	3,638	8,968	87	7,583	3,209	975	3,370	29
EDGECOMBE	49,223	25,919	673	15,154	7,477	11,486	5,180	116	3,935	2,255
GATES	37,003	19,055	2,034	12,910	3,004	10,215	4,638	563	4,020	994
HALIFAX	70,343	30,991	572	25,317	13,463	19,680	8,137	62	7,027	4,454
HERTFORD	29,758	15,522	1,094	5,720	7,422	7,873	3,723	185	2,051	1,914
HYDE	36,403	25,824	1,211	7,361	2,007	11,039	7,697	257	2,816	269
MARTIN	40,660	21,427	1,106	11,116	7,011	11,078	4,836	603	4,058	1,581
NASH	51,951	27,838	231	12,558	11,324	13,291	5,774	49	4,143	3,325
NORTHAMPTON	44,336	15,931	384	13,973	14,048	12,718	4,339	65	4,287	4,027
PAMLICO	38,196	24,663	292	11,156	2,085	8,814	5,134	46	2,892	742
PASQUOTANK	22,148	7,834	3,397	8,512	2,405	4,333	1,418	518	2,013	384
PERQUIMANS	18,448	10,359	870	3,318	3,901	4,568	1,989	186	1,473	920
PITT	44,222	21,810	4,296	13,627	4,489	11,058	4,619	639	4,367	1,433
TYRRELL	41,185	24,931	3,475	10,737	2,042	10,684	5,186	908	4,055	535
WASHINGTON	20,253	10,147	1,047	7,380	1,679	5,449	1,748	162	2,920	619
WILSON	36,358	20,146	281	10,798	5,133	8,061	3,394	49	2,749	1,869
TOTAL	880,908	478,990	31,322	249,540	121,056	231,362	108,175	6,686	81,161	35,340

TABLE 9. --ANNUAL REMOVALS OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1973

COUNTY	SAWTIMBER			GROWING STOCK			THOUSAND CUBIC FEET		
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	HARD HARDWOOD
BEAUFORT	98,450	81,839	401	12,557	3,653	24,947	19,746	91	3,854
BERTIE	149,723	69,465	11,284	52,596	16,378	32,584	13,733	2,186	11,676
CAMDEN	18,114	11,899	810	4,427	1,978	4,771	2,468	702	1,410
CARTERET	19,395	16,315	--	3,080	--	5,459	4,411	--	1,929
CHOWAN	27,112	19,251	--	3,474	4,387	6,133	3,707	--	1,421
CRAVEN	57,439	45,684	368	6,206	5,181	13,139	9,404	70	2,138
CURRITUCK	4,105	3,955	--	150	--	971	622	--	349
DARE	1,374	811	--	563	--	942	168	--	521
EDGECOMBE	27,918	15,746	--	9,606	2,566	6,378	3,493	--	253
GATES	43,195	30,963	1,269	5,941	5,022	9,678	5,899	407	575
HALIFAX	60,174	37,147	--	13,735	9,292	16,470	10,140	--	2,086
HERTFORD	48,649	31,439	1,190	10,322	5,698	13,129	7,529	321	3,358
HYDE	23,737	10,579	553	11,300	1,305	6,095	2,521	115	2,992
MARTIN	49,382	14,108	2,572	25,773	6,929	11,741	3,445	488	5,644
NASH	46,182	27,667	2,241	8,144	8,130	10,451	6,162	375	1,764
NORTHAMPTON	39,613	20,555	--	9,332	9,726	10,272	4,837	--	2,750
PAMLICO	22,214	16,180	--	3,694	2,340	5,451	3,528	--	1,006
PASQUOTANK	36,047	29,013	581	4,199	2,254	8,385	6,638	99	1,035
PERQUIMANS	42,012	19,101	2,484	14,161	6,266	10,458	4,688	497	3,732
PITT	68,021	40,863	2,077	17,553	7,526	15,340	8,737	405	4,500
TYRRELL	11,120	5,497	--	5,623	--	3,171	1,232	--	1,939
WASHINGTON	21,807	13,533	1,261	6,893	320	7,071	3,533	448	77
WILSON	22,670	18,018	--	4,451	201	4,947	3,705	--	1,057
TOTAL	938,453	579,628	27,091	233,580	98,154	227,983	130,346	6,204	62,315
									29,118

TABLE 10. --AREA OF COMMERCIAL FOREST LAND, BY FOREST TYPE AND OWNERSHIP CLASS, 1974

FOREST TYPE	ALL OWNERSHIPS	OWNERSHIP CLASS				
		NATIONAL FOREST	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISC. PRIVATE
----- ACRES -----						
SOFTWOOD TYPES:						
WHITE PINE-HEMLOCK	--	--	--	--	--	--
SPRUCE-FIR	--	--	--	--	--	--
LONGLEAF PINE	32,386	4,178	5,390	9,088	5,294	8,436
SLASH PINE	5,547	--	--	2,686	2,861	--
LOBLOLLY PINE	1,053,980	21,177	14,524	365,286	411,380	241,613
SHORTLEAF PINE	11,548	--	--	2,924	5,620	3,004
VIRGINIA PINE	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--
EASTERN REDCEDAR	--	--	--	--	--	--
POND PINE	528,890	52,843	24,021	131,481	54,554	265,991
SPRUCE PINE	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--
TOTAL	1,632,351	78,198	43,935	511,465	479,709	519,044
HARDWOOD TYPES:						
OAK-PINE	606,628	24,358	8,467	129,608	252,308	191,887
OAK-HICKORY	736,472	1,945	4,675	44,354	490,512	194,986
CHESTNUT OAK	--	--	--	--	--	--
SOUTHERN SCRUB OAK	--	--	--	--	--	--
OAK-GUM-CYPRESS	1,045,901	4,178	13,743	204,687	419,004	404,289
ELM-ASH-COTTONWOOD	89,027	--	--	3,790	56,979	22,258
MAPLE-BEECH-BIRCH	--	--	--	--	--	--
TOTAL	2,478,028	30,481	26,885	388,439	1,218,803	813,420
ALL TYPES	4,110,379	108,679	70,820	899,904	1,698,512	1,332,464

TABLE 11. --AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP AND STOCKING CLASSES OF GROWING-STOCK TREES, 1974

OWNERSHIP CLASSES	ALL CLASSES	STOCKING PERCENTAGE <sup>1</sup>				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
- - - - - ACRES - - - - -						
NATIONAL FOREST	108,679	2,233	18,311	45,245	26,825	16,065
OTHER PUBLIC	70,820	2,173	21,594	32,362	6,427	8,264
FOREST INDUSTRY	899,904	28,059	377,935	330,084	131,440	32,386
FARMER	1,698,512	72,333	597,019	735,911	282,389	10,860
MISC. PRIVATE	1,332,464	43,059	403,536	585,351	257,445	43,073
ALL OWNERSHIPS	4,110,379	147,857	1,418,395	1,728,953	704,526	110,648

<sup>1</sup> SEE STOCKING STANDARDS ON PAGE 12.

TABLE 12. --VOLUME OF TIMBER ON COMMERCIAL FOREST LAND, BY CLASS AND SPECIES GROUP, 1974

CLASS OF TIMBER	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
- - - - - THOUSAND CUBIC FEET - - - - -					
SAWTIMBER TREES:					
SAW-LOG PORTION	3,571,943	1,813,001	171,319	1,116,328	471,295
UPPER-STEM PORTION	525,855	172,761	16,325	236,797	99,972
TOTAL	4,097,798	1,985,762	187,644	1,353,125	571,267
POLETIMBER TREES	1,775,425	549,322	34,978	843,841	347,284
ALL GROWING-STOCK TREES	5,873,223	2,535,084	222,622	2,196,966	918,551
ROUGH TREES:					
SAWTIMBER-SIZE TREES	120,117	7,011	560	78,899	33,647
POLETIMBER-SIZE TREES	296,612	15,807	1,570	165,482	113,753
TOTAL	416,729	22,818	2,130	244,381	147,400
ROTTEN TREES:					
SAWTIMBER-SIZE TREES	185,798	1,445	14,108	145,625	24,620
POLETIMBER-SIZE TREES	30,885	101	196	25,354	5,234
TOTAL	216,683	1,546	14,304	170,979	29,854
SALVABLE DEAD TREES:					
SAWTIMBER-SIZE TREES	6,040	5,610	206	179	45
POLETIMBER-SIZE TREES	5,421	5,205	84	97	35
TOTAL	11,461	10,815	290	276	80
TOTAL, ALL TIMBER	6,518,096	2,570,263	239,346	2,612,602	1,095,885

TABLE 13. --NUMBER OF GROWING-STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
		5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 AND LARGER
THOUSAND TREES											
SOFTWOOD:											
LONGLEAF PINE	4,790	1,679	1,245	577	642	379	213	51	--	4	--
SLASH PINE	2,359	1,581	732	46	--	--	--	--	--	--	--
SHORTLEAF PINE	4,805	2,056	1,356	759	405	174	37	18	--	--	--
LOBLOLLY PINE	139,932	48,650	32,761	19,575	15,085	11,041	6,833	3,524	1,430	1,013	20
POND PINE	74,540	35,418	19,240	11,108	4,552	2,358	1,250	436	108	70	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	6,788	1,399	1,202	1,013	1,044	811	509	350	217	232	11
PONDCYPRESS	605	78	146	133	114	62	40	7	16	7	2
CEDARS	6,866	3,037	1,505	1,215	582	290	107	58	50	22	--
TOTAL SOFTWOODS	240,685	93,898	58,187	34,426	22,424	15,115	8,989	4,444	1,821	1,348	33
HARDWOOD:											
SELECT WHITE OAKS	24,463	9,951	5,181	3,538	2,374	1,475	970	408	279	246	41
SELECT RED OAKS	2,974	923	672	472	292	124	161	149	73	87	21
CHESTNUT OAK	--	--	--	--	--	--	--	--	--	--	--
OTHER WHITE OAKS	5,178	1,681	1,428	679	568	329	215	91	32	132	23
OTHER RED OAKS	31,090	13,189	7,476	4,850	2,364	1,336	830	437	261	265	62
HICKORY	3,699	1,290	981	524	350	213	102	104	78	55	2
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	93	47	31	--	15	--	--	--	--	--	--
SOFT MAPLE	39,637	18,184	9,863	5,350	3,038	1,609	759	415	277	136	6
BEECH	1,842	438	339	326	207	275	68	69	47	60	13
SWEETGUM	54,323	23,822	12,750	7,278	4,445	2,788	1,640	869	389	319	23
TUPELO AND BLACKGUM	63,722	20,044	14,742	10,218	7,044	5,040	3,045	1,958	820	758	53
ASH	9,107	4,250	2,400	1,210	562	349	170	131	24	9	2
COTTONWOOD	1,352	457	211	250	147	156	53	29	29	20	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	13,148	3,633	3,308	2,251	1,586	992	582	360	187	231	18
BAY AND MAGNOLIA	3,882	2,069	812	593	284	90	14	10	10	--	--
BLACK CHERRY	677	378	147	95	--	57	--	--	--	--	--
BLACK WALNUT	114	--	--	60	31	23	--	--	--	--	--
SYCAMORE	263	46	56	33	42	9	39	12	14	12	--
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	4,567	1,370	1,420	921	345	161	153	99	45	46	7
OTHER EASTERN HARDWOODS	8,742	4,764	2,190	842	446	295	75	72	14	40	4
TOTAL HARDWOODS	268,873	106,536	64,007	39,490	24,140	15,321	8,876	5,213	2,579	2,436	275
ALL SPECIES	509,558	200,434	122,194	73,916	46,564	30,436	17,865	9,657	4,400	3,784	308

TABLE 14. --VOLUME OF ALL LIVE TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
		5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 AND LARGER
-- THOUSAND CUBIC FEET --											
SOFTWOOD:											
LONGLEAF PINE	52,470	3,896	8,551	6,561	12,056	10,506	8,011	2,599	--	290	--
SLASH PINE	7,256	3,734	3,223	299	--	--	--	--	--	--	--
SHORTLEAF PINE	37,535	4,889	9,267	9,216	7,216	4,702	1,355	950	--	--	--
LOBLOLY PINE	1,929,238	124,052	216,481	250,927	313,175	336,463	285,960	195,104	101,232	101,875	3,969
POND PINE	532,639	87,470	103,667	126,839	81,633	58,040	43,216	20,127	6,555	5,342	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	155,885	4,674	10,256	14,062	21,701	23,669	20,467	18,818	15,222	21,797	5,219
PONDICYPRESS	14,319	305	1,690	1,638	1,979	1,754	2,111	787	1,085	1,557	1,413
CEDARS	68,852	9,036	10,783	17,657	11,607	8,762	3,737	2,720	2,966	1,584	--
TOTAL SOFTWOODS	2,798,504	238,056	363,918	427,199	449,367	443,896	364,857	241,105	127,060	132,445	10,601
HARDWOOD:											
SELECT WHITE OAKS	292,748	30,537	33,251	41,108	44,929	39,300	35,808	19,861	17,178	21,656	9,120
SELECT RED OAKS	55,976	3,090	4,595	5,830	6,542	3,619	6,731	6,953	4,553	8,627	6,436
CHESTNUT OAK	--	--	--	--	--	--	--	--	--	--	--
OTHER WHITE OAKS	79,817	5,243	8,917	8,300	11,927	8,878	8,141	5,124	2,118	14,578	6,591
OTHER RED OAKS	342,195	41,261	49,399	57,210	45,917	37,144	30,222	21,908	16,730	29,306	13,098
HICKORY	50,422	3,787	5,955	5,708	6,737	6,101	4,026	5,353	5,968	5,947	840
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	513	108	149	--	256	--	--	--	--	--	--
SOFT MAPLE	495,947	87,423	92,738	82,098	71,486	52,793	38,037	25,085	21,401	22,018	2,868
BEECH	48,572	2,649	3,587	4,628	5,112	8,771	3,556	4,233	3,883	9,577	2,576
SWEETGUM	634,626	69,923	92,017	97,752	100,260	87,224	69,760	48,048	28,018	34,433	7,191
TUPELO AND BLACKGUM	1,088,757	83,459	123,552	144,457	151,773	154,074	128,230	108,381	63,273	93,493	38,065
ASH	111,456	20,367	23,245	20,721	16,274	12,553	7,372	6,315	2,417	1,612	580
COTTONWOOD	22,675	1,823	1,877	3,258	3,391	5,006	1,904	1,737	1,906	1,773	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	205,416	12,568	22,928	27,486	32,823	29,131	23,025	18,504	12,177	23,083	3,691
BAY AND MAGNOLIA	41,626	10,387	9,021	9,351	7,046	2,934	700	936	1,117	134	--
BLACK CHERRY	8,269	2,107	2,465	1,680	--	1,555	--	--	--	462	--
BLACK WALNUT	1,671	--	--	609	573	489	--	--	--	--	--
SYCAMORE	7,594	201	797	740	767	422	1,510	641	740	1,732	44
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	66,951	6,328	11,072	12,226	8,796	5,441	6,130	6,387	2,861	5,200	2,510
OTHER EASTERN HARDWOODS	151,900	52,254	37,452	21,254	14,232	10,664	3,547	4,845	1,200	4,235	2,217
TOTAL HARDWOODS	3,708,131	433,515	523,017	544,416	528,841	466,099	368,699	284,311	185,540	277,866	95,827
ALL SPECIES	6,506,635	671,571	886,935	971,615	978,208	909,995	733,556	525,416	312,600	410,311	106,428

TABLE 15. --VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
		5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 AND LARGER
-- THOUSAND CUBIC FEET --											
SOFTWOOD:											
LONGLEAF PINE	52,470	3,896	8,551	6,561	12,056	10,506	8,011	2,599	--	290	--
SLASH PINE	7,151	3,629	3,223	299	--	--	--	--	--	--	--
SHORTLEAF PINE	37,595	4,889	9,267	9,216	7,216	4,702	1,355	950	--	--	--
LOBLOLLY PINE	1,922,257	122,058	214,512	250,379	312,168	336,233	285,960	195,104	101,040	101,010	3,793
POND PINE	515,611	81,110	98,187	123,350	81,081	57,673	42,186	20,127	6,555	5,342	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	143,752	4,391	9,531	13,207	20,678	22,285	19,713	17,998	14,262	19,932	1,755
PONDICYPRESS	11,171	305	1,128	1,638	1,979	1,754	1,628	336	1,085	871	447
CEDARS	67,699	9,036	10,587	17,386	11,607	8,442	3,609	2,720	2,728	1,584	--
TOTAL SOFTWOODS	2,757,706	229,314	354,986	422,036	446,785	441,595	362,462	239,834	125,670	129,029	5,995
HARDWOOD:											
SELECT WHITE OAKS	279,935	27,921	31,128	39,436	43,535	38,649	34,978	19,136	16,387	21,054	7,711
SELECT RED OAKS	53,726	2,711	4,457	5,677	6,216	3,488	5,983	6,953	4,396	7,945	5,900
CHESTNUT OAK	--	--	--	--	--	--	--	--	--	--	--
OTHER WHITE OAKS	71,095	4,143	7,894	6,871	10,213	7,955	7,412	4,575	1,968	13,962	6,102
OTHER RED OAKS	316,558	36,766	45,584	53,333	42,556	35,365	29,712	20,656	15,743	25,482	11,361
HICKORY	44,652	2,315	5,048	5,281	5,914	6,010	3,802	5,119	5,408	5,276	479
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	513	108	149	--	256	--	--	--	--	--	--
SOFT MAPLE	358,716	59,977	65,877	62,496	55,978	41,598	26,784	18,865	15,394	10,830	917
BEECH	35,257	1,552	2,287	3,510	3,870	7,350	2,583	3,627	2,926	5,512	2,040
SWEETGUM	582,872	60,086	82,660	91,409	91,435	81,167	66,463	46,893	26,373	30,944	5,442
TUPELO AND BLACKGUM	905,249	62,172	99,485	125,947	136,045	139,743	114,062	96,835	51,770	67,115	12,075
ASH	83,742	13,009	16,417	15,741	12,087	10,833	6,771	6,269	1,718	551	346
COTTONWOOD	21,123	1,318	1,430	3,258	3,391	4,627	1,904	1,737	1,906	1,552	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	199,966	11,462	22,450	27,093	32,586	28,519	22,885	18,076	12,067	21,934	2,894
BAY AND MAGNOLIA	26,520	6,186	4,938	6,836	4,920	2,130	469	529	512	--	--
BLACK CHERRY	4,801	1,087	1,101	1,196	--	1,417	--	--	--	--	--
BLACK WALNUT	1,671	--	--	609	573	489	--	--	--	--	--
SYCAMORE	6,273	201	450	542	767	288	1,510	641	740	1,134	--
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	56,194	3,873	8,935	10,783	6,242	4,880	6,130	5,589	2,861	4,623	2,278
OTHER EASTERN HARDWOODS	66,654	13,154	12,788	9,988	8,708	8,267	3,102	3,992	956	3,658	2,041
TOTAL HARDWOODS	3,115,517	308,041	413,078	470,006	465,292	422,775	334,550	259,492	161,125	221,572	59,586
ALL SPECIES	5,873,223	537,355	768,064	892,042	912,077	864,370	697,012	499,326	286,795	350,601	65,581

TABLE 16. --VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 AND LARGER
THOUSAND BOARD FEET									
SOFTWOOD:									
LONGLEAF PINE	204,412	26,149	57,952	56,409	46,172	15,804	--	1,926	--
SLASH PINE	998	998	--	--	--	--	--	--	--
SHORTLEAF PINE	99,703	32,634	31,026	23,060	7,455	5,528	--	--	--
LOBLOLLY PINE	7,966,026	878,005	1,374,930	1,687,227	1,571,004	1,144,623	622,725	660,626	26,886
POND PINE	1,548,410	467,086	367,156	292,636	231,028	116,768	39,884	33,852	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--
BALDCYPRESS	605,254	37,756	77,405	96,375	94,966	92,722	77,950	116,694	11,386
PONDICYPRESS	44,710	5,286	7,718	7,902	7,963	1,760	5,962	5,235	2,884
CEDARS	223,243	66,430	52,435	43,018	19,645	15,671	16,182	9,862	--
TOTAL SOFTWOODS	10,692,756	1,514,344	1,968,622	2,206,627	1,978,233	1,392,876	762,703	828,195	41,156
HARDWOOD:									
SELECT WHITE OAKS	794,839	--	141,367	151,602	152,980	91,787	85,603	119,474	52,026
SELECT RED OAKS	205,899	--	21,580	14,305	26,976	33,768	23,230	46,055	39,985
CHESTNUT OAK	--	--	--	--	--	--	--	--	--
OTHER WHITE OAKS	259,506	--	36,771	32,788	34,655	22,981	10,460	81,907	39,944
OTHER RED OAKS	846,552	--	155,951	149,906	138,309	102,550	83,527	144,954	71,355
HICKORY	147,549	--	19,951	24,254	17,428	24,897	28,255	29,765	2,999
YELLOW BIRCH	--	--	--	--	--	--	--	--	--
HARD MAPLE	945	--	945	--	--	--	--	--	--
SOFT MAPLE	646,915	--	173,423	151,268	108,790	82,862	71,452	54,111	5,009
BEECH	109,080	--	14,039	27,660	9,953	14,317	11,753	22,668	8,690
SWEETGUM	1,603,402	--	321,261	344,855	319,564	245,782	147,165	187,815	36,960
TUPELO AND BLACKGUM	2,716,988	--	446,944	554,141	510,225	475,586	270,422	381,213	78,457
ASH	151,101	--	38,615	41,654	28,922	28,728	8,420	2,778	1,984
COTTONWOOD	70,262	--	12,633	19,687	9,034	9,233	10,499	9,176	--
BASSWOOD	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	652,109	--	114,510	119,158	108,253	93,473	66,563	131,157	18,995
BAY AND MAGNOLIA	30,929	--	15,954	7,985	2,044	2,469	2,477	--	--
BLACK CHERRY	4,539	--	--	4,539	--	--	--	--	--
BLACK WALNUT	3,476	--	1,877	1,599	--	--	--	--	--
SYCAMORE	23,205	--	2,310	1,096	6,576	3,014	3,770	6,439	--
BLACK LOCUST	--	--	--	--	--	--	--	--	--
ELM	140,903	--	20,644	19,027	26,013	25,397	13,565	23,379	12,878
OTHER EASTERN HARDWOODS	121,699	--	28,794	29,962	12,380	16,956	4,477	17,608	11,522
TOTAL HARDWOODS	8,529,898	--	1,567,569	1,695,486	1,512,102	1,273,800	841,638	1,258,499	380,804
ALL SPECIES	19,222,654	1,514,344	3,536,191	3,902,113	3,490,335	2,666,676	1,604,341	2,086,694	421,960

TABLE 17. --NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES, 1973

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
- - THOUSAND CUBIC FEET - -		
SOFTWOOD:		
YELLOW PINES	108,175	130,346
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	3,932	5,585
OTHER EASTERN SOFTWOODS	2,754	619
TOTAL SOFTWOODS	114,861	136,550
HARDWOOD:		
SELECT WHITE AND RED OAKS	12,268	11,110
OTHER WHITE AND RED OAKS	17,297	12,565
HICKORY	1,375	937
YELLOW BIRCH	--	--
HARD MAPLE	31	--
SWEETGUM	22,339	19,647
ASH, WALNUT, AND BLACK CHERRY	2,989	3,045
YELLOW-POPLAR	15,078	5,643
TUPELO AND BLACKGUM	16,960	26,275
BAY AND MAGNOLIA	689	292
OTHER EASTERN HARDWOODS	27,475	11,919
TOTAL HARDWOODS	116,501	91,433
ALL SPECIES	231,362	227,983

TABLE 18. --NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1973

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
- - - THOUSAND BOARD FEET - - -		
SOFTWOOD:		
YELLOW PINES	478,990	579,628
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	19,868	26,725
OTHER EASTERN SOFTWOODS	11,454	366
TOTAL SOFTWOODS	510,312	606,719
HARDWOOD:		
SELECT WHITE AND RED OAKS	44,835	38,160
OTHER WHITE AND RED OAKS	56,752	42,357
HICKORY	5,478	2,701
YELLOW BIRCH	--	--
HARD MAPLE	48	--
SWEETGUM	74,994	75,955
ASH, WALNUT, AND BLACK CHERRY	9,031	9,330
YELLOW-POPLAR	54,094	20,110
TUPELO AND BLACKGUM	65,777	108,844
BAY AND MAGNOLIA	1,863	414
OTHER EASTERN HARDWOODS	57,724	33,863
TOTAL HARDWOODS	370,596	331,734
ALL SPECIES	880,908	938,453

TABLE 19. --MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL  
FOREST LAND, BY SPECIES, 1973

SPECIES	GROWING STOCK	SAWTIMBER
	THOUSAND CUBIC FEET	THOUSAND BOARD FEET
SOFTWOOD:		
YELLOW PINES	19,844	46,624
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	478	1,468
OTHER EASTERN SOFTWOODS	55	--
TOTAL SOFTWOODS	20,377	48,092
HARDWOOD:		
SELECT WHITE AND RED OAKS	652	2,608
OTHER WHITE AND RED OAKS	2,380	5,178
HICKORY	210	547
YELLOW BIRCH	--	--
HARD MAPLE	--	--
SWEETGUM	2,734	8,844
ASH, WALNUT, AND BLACK CHERRY	261	864
YELLOW-POPLAR	609	2,245
TUPELO AND BLACKGUM	2,797	8,948
BAY AND MAGNOLIA	153	248
OTHER EASTERN HARDWOODS	6,431	14,409
TOTAL HARDWOODS	16,227	43,891
ALL SPECIES	36,604	91,983

TABLE 20.--VOLUME OF ALL LIVE TREES AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1974

OWNERSHIP CLASS	ALL LIVE TREES					GROWING STOCK				
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
THOUSAND CUBIC FEET										
NATIONAL FOREST	121,133	98,933	3,027	13,816	5,357	113,159	97,489	173	10,930	4,567
OTHER PUBLIC	92,674	44,076	1,934	35,694	10,970	80,534	42,799	1,566	27,347	8,822
FOREST INDUSTRY	1,092,745	436,338	35,937	500,464	120,006	982,852	432,067	33,877	418,977	97,931
FARMER	3,132,670	1,152,132	94,085	1,259,752	626,701	2,844,399	1,147,639	88,350	1,074,736	533,674
MISCELLANEOUS PRIVATE	2,067,413	827,969	104,073	802,600	332,771	1,852,279	815,090	98,656	664,976	273,557
ALL OWNERSHIPS	6,506,635	2,559,448	239,056	2,612,326	1,095,805	5,873,223	2,535,084	222,622	2,196,966	918,551

TABLE 21.--VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1974

OWNERSHIP CLASS	SMALL SAWTIMBER <sup>1</sup>					LARGE SAWTIMBER <sup>2</sup>				
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
THOUSAND BOARD FEET										
NATIONAL FOREST	251,003	233,832	--	10,945	6,226	127,657	104,303	835	16,902	5,617
OTHER PUBLIC	131,549	96,391	2,643	26,568	5,947	92,648	26,505	4,868	48,297	12,978
FOREST INDUSTRY	1,463,614	894,303	41,461	440,141	87,709	1,652,272	597,932	94,228	748,840	211,272
FARMER	4,295,087	2,401,663	147,452	1,178,729	567,243	5,385,571	2,416,883	239,632	1,859,652	869,404
MISCELLANEOUS PRIVATE	2,811,395	1,669,079	202,769	697,248	242,299	3,011,858	1,378,658	139,319	918,808	575,073
ALL OWNERSHIPS	8,952,648	5,295,268	394,325	2,353,631	909,424	10,270,006	4,524,281	478,882	3,592,499	1,674,344

<sup>1</sup> VOLUME OF SAWTIMBER TREES LESS THAN 15.0 INCHES AT D.B.H.<sup>2</sup> VOLUME OF SAWTIMBER TREES 15.0 INCHES AND LARGER AT D.B.H.

TABLE 22.--NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1973

OWNERSHIP CLASS	NET ANNUAL GROWTH					ANNUAL TIMBER REMOVALS				
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
THOUSAND CUBIC FEET										
NATIONAL FOREST	5,138	4,371	4	601	162	1,726	1,544	--	--	182
OTHER PUBLIC	3,344	1,971	26	1,036	311	1,400	931	--	469	--
FOREST INDUSTRY	40,076	21,358	1,454	13,609	3,655	77,806	53,008	1,337	15,477	7,984
FARMER	109,790	46,674	1,983	39,768	21,365	97,729	51,684	1,859	29,457	14,728
MISCELLANEOUS PRIVATE	73,014	33,801	3,219	26,147	9,847	49,322	23,179	3,008	16,912	6,223
ALL OWNERSHIPS	231,362	108,175	6,686	81,161	35,340	227,983	130,346	6,204	62,315	29,118

TABLE 23.--NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1973

OWNERSHIP CLASS	NET ANNUAL GROWTH					ANNUAL TIMBER REMOVALS				
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
THOUSAND BOARD FEET										
NATIONAL FOREST	19,674	17,844	23	995	812	6,285	5,826	--	--	459
OTHER PUBLIC	10,543	7,165	149	2,061	1,168	3,238	2,170	--	1,068	--
FOREST INDUSTRY	132,545	75,723	3,757	40,529	12,536	319,723	236,334	6,628	53,187	23,574
FARMER	441,589	227,576	12,395	130,773	70,845	417,763	233,604	9,306	118,003	56,850
MISCELLANEOUS PRIVATE	276,557	150,682	14,998	75,182	35,695	191,444	101,694	11,157	61,322	17,271
ALL OWNERSHIPS	880,908	478,990	31,322	249,540	121,056	938,453	579,628	27,091	233,580	98,154

TABLE 24.--AVERAGE NET VOLUME PER ACRE OF SAWTIMBER, GROWING STOCK, AND OTHER LIVE TIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS, MAJOR FOREST TYPE, AND SPECIES GROUP, 1974

FOREST TYPE, SPECIES GROUP, AND CLASS OF MATERIAL	OWNERSHIP CLASS											
	ALL OWNERSHIPS		NATIONAL FOREST		OTHER PUBLIC		FOREST INDUSTRY		FARMER		MISC. PRIVATE	
	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET
PINE TYPES:												
GROWING STOCK:												
SOFTWOOD	4,217	1,151	3,402	1,033	3,059	1,062	2,032	624	6,939	1,729	4,259	1,209
HARDWOOD	253	148	76	46	19	55	149	76	497	264	183	139
TOTAL	4,470	1,299	3,478	1,079	3,088	1,117	2,181	700	7,436	1,993	4,442	1,348
OTHER TIMBER:												
SOFTWOOD	--	13	--	36	--	34	--	7	--	5	--	23
HARDWOOD	--	33	--	14	--	32	--	14	--	54	--	38
TOTAL	--	46	--	50	--	66	--	21	--	59	--	61
OAK-PINE TYPES:												
GROWING STOCK:												
SOFTWOOD	2,988	685	2,712	635	1,555	546	1,739	458	3,839	828	2,869	671
HARDWOOD	1,298	509	821	296	1,635	719	443	233	1,793	692	1,285	477
TOTAL	4,286	1,194	3,533	931	3,190	1,265	2,182	691	5,632	1,520	4,154	1,148
OTHER TIMBER:												
SOFTWOOD	--	5	--	18	--	12	--	2	--	5	--	5
HARDWOOD	--	88	--	67	--	59	--	41	--	123	--	80
TOTAL	--	93	--	85	--	71	--	43	--	128	--	85
UPLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	905	201	1,664	255	--	--	1,128	229	826	190	1,046	223
HARDWOOD	2,964	1,060	6,821	1,764	1,750	587	4,264	1,229	2,792	1,041	3,001	1,059
TOTAL	3,869	1,261	8,485	2,019	1,750	587	5,392	1,458	3,618	1,231	4,047	1,282
OTHER TIMBER:												
SOFTWOOD	--	1	--	--	--	--	--	--	--	2	--	1
HARDWOOD	--	146	--	133	--	49	--	167	--	146	--	141
TOTAL	--	147	--	133	--	49	--	167	--	148	--	142
BOTTOMLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	1,164	275	863	225	563	143	982	223	1,291	275	1,151	309
HARDWOOD	4,539	1,575	123	310	4,094	1,436	4,893	1,656	5,280	1,747	3,600	1,360
TOTAL	5,703	1,850	986	535	4,657	1,579	5,875	1,879	6,571	2,022	4,751	1,669
OTHER TIMBER:												
SOFTWOOD	--	13	--	255	--	22	--	10	--	12	--	13
HARDWOOD	--	332	--	171	--	512	--	357	--	327	--	320
TOTAL	--	345	--	426	--	534	--	367	--	339	--	333
ALL TYPES:												
GROWING STOCK:												
SOFTWOOD	2,601	671	3,119	899	2,011	684	1,692	484	3,129	743	2,586	697
HARDWOOD	2,075	758	365	143	1,446	558	1,546	537	2,690	967	1,857	716
TOTAL	4,676	1,429	3,484	1,042	3,457	1,242	3,238	1,021	5,819	1,710	4,443	1,413
OTHER TIMBER:												
SOFTWOOD	--	10	--	40	--	25	--	7	--	6	--	14
HARDWOOD	--	144	--	34	--	162	--	108	--	167	--	150
TOTAL	--	154	--	74	--	187	--	115	--	173	--	164
ALL TIMBER	4,676	1,583	3,484	1,116	3,457	1,429	3,238	1,136	5,819	1,883	4,443	1,577

<sup>1</sup> ROUGH AND ROTTEN TREES.

TABLE 25. --LAND AREA, BY CLASS, MAJOR FOREST TYPE, AND SURVEY COMPLETION DATE, 1955, 1963, AND 1974

LAND USE CLASS	SURVEY COMPLETION DATE			CHANGE 1963-1974
	1955	1963	1974	
- - - - - ACRES - - - - -				
FOREST LAND:				
COMMERCIAL FOREST LAND:				
PINE AND OAK-PINE TYPES	2,391,100	2,540,198	2,238,979	-301,219
HARDWOOD TYPES	1,749,300	1,707,683	1,871,400	+163,717
TOTAL	4,140,400	4,247,881	4,110,379	-137,502
NONCOMMERCIAL FOREST LAND:				
PRODUCTIVE-RESERVED	400	700	1,756	+ 1,056
UNPRODUCTIVE	261,400	38,164	34,172	- 3,992
TOTAL	261,800	38,864	35,928	- 2,936
NONFOREST LAND:				
CROPLAND	1,804,100	1,733,301	1,814,616	+ 81,315
PASTURE AND RANGE	125,400	181,996	91,656	- 90,340
OTHER	413,500	442,262	582,110	+139,848
TOTAL	2,343,000	2,357,559	2,488,382	+130,823
ALL LAND <sup>1</sup>	6,745,200	6,644,304	6,634,689	- 9,615

<sup>1</sup> EXCLUDES ALL WATER AREAS.

Welch, Richard L., and Knight, Herbert A.

1974. Forest statistics for the Northern Coastal Plain of North Carolina, 1974. USDA For. Serv. Resour. Bull. SE-30, 33 p. Southeast. For. Exp. Stn., Asheville, N.C.

New Forest Survey findings identify several highly significant trends in this 23-county area. Between 1963 and 1974, commercial forest area decreased by more than 3 percent to 4.1 million acres, and area occupied by sawtimber stands dropped by a million acres. Total volume of growing-stock timber inched up by 2 percent, but most of this modest gain was in small hardwood. A healthy, 29-percent increase in annual growth failed to keep pace with a 53-percent surge in annual timber removals. In 1973, slightly over half of the growth was hardwood, yet 60 percent of the volume removed was softwood. As a result, softwood removals exceeded growth by 19 percent.

Forest Service - U.S. Department of Agriculture  
Southeastern Forest Experiment Station  
Asheville, North Carolina